Celanese
The chemistry inside innovation™

CELANYL® A2 HH J14 BK 9005/2

CELANYL®

Medium toughened grade, good surface appearance and good processability. Suitable for many technical applications.

Product information

Resin Identification	PA66-I		ISO 1043
Part Marking Code	>PA66-I<		ISO 11469
Continuous Service Temperature	105	°C	IEC 60216-1

Rheological properties

Moulding shrinkage range, parallel	1.1 - 1.7	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.1 - 1.7	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	2250 / -	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	65 / -	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	8 / -	%	ISO 527-1/-2
Tensile strain at break, 50mm/min	40 / -	%	ISO 527-1/-2
Flexural modulus	2100 / -	MPa	ISO 178
Flexural strength	80 / -	MPa	ISO 178
Charpy impact strength, 23°C	N / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	19 / -	kJ/m²	ISO 179/1eA
Poisson's ratio	0.39 / -[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Temperature of deflection under load, 1.8 MPa	60 / *	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB / *	class	IEC 60695-11-10
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.1 / *	%	Sim. to ISO 62
Water absorption, 2mm	7.1 / *	%	Sim. to ISO 62
Density	1090 / -	kg/m³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	80	°C
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.15	%
Melt Temperature Optimum	290	°C
Min. melt temperature	280	°C
Max. melt temperature	300	°C
Screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	80	°C

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Min. mould temperature	50	°C
Max. mould temperature	100	°C

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	High impact or impact modified, Heat stabilised or stable to heat

Revised: 2024-08-16 Source: Celanese Materials Database